

## **Minutes of the 4<sup>th</sup> Meeting of the Maules Creek Coal Community Consultative Committee**

- Meeting Held:** 12<sup>th</sup> February 2014, 2:30pm
- Venue:** Maules Creek Coal, Finance Office Boardroom, Boggabri
- Present:** Mr John Turner, Chair for CCC (JT)  
Mr Peter Watson, Community Rep (PW)  
Clr Lloyd Finlay, Narrabri Shire Rep (LF)  
Mr Rod Woolford (RW)  
Ms Carolyn Nancarrow, Community Rep (CN)  
Ms Toni Comber, Community Rep (TC)  
Mr Daniel Martin, Environment & Heritage Manager (DM)  
Mr Craig Simmons, Area Manager Services (CS)  
Mr Brian Cole, Executive General Manager – Project Delivery (BC)  
Miss Kelly Browning, Work Health & Safety Officer (KB)
- Apologies:** Mr Jason Davis, Community Rep (JD)

### **1. Confirmation of Last Minutes**

JT requested comments on previous joint minutes or that minutes be accepted.  
LF moved that the minutes of the last joint meeting be accepted CN seconded

JT advised that the other Committees had also accepted the minutes of the last meeting.

### **2. Business Arising from Previous Minutes**

- EDO Court Case – BC provided information on the background of the court case. BC advised that Northern Inland Council for Environment (NICE) had challenged both Boggabri Coal and Maules Creek Approvals. All seven bases for appeal were rejected. BC is not aware that NICE have appealed.
- Aboriginal salvage –BC provided information on the background of the salvage program including:
  - the commencement of the process in accordance with the Management Plan in June

- the delays encountered in July and stoppage of works
  - the intensive period of discussions with aboriginal stakeholders on a process for the way forward
  - Due to differences in the RAP group it split into two sub groups that would not work together.
- MCC completed the Stage 1 salvage works working with one of the RAP groups.  
Results of the salvage program were documented and submitted to DPI who liaised with OEH. Correspondence received back from the agencies was that MC had fulfilled its obligations under the approved Aboriginal Archaeological and Cultural Heritage Management Plan.

BC explained that stage 1 salvage is for the mine infrastructure area including the coal handling plant, MIA, rail spur and associated infrastructure. That allowed Leighton's and the raw water Contractors to start works with Aboriginal stakeholders doing monitoring work. In total approximately 6,000 artefacts were recorded and salvaged.

LF asked where the artefacts were stored.

BC responded that they are at the MC offices and going forward MC would provide a keeping place for displaying and storing the artefacts.

TC advised that there were talks of combined keeping places for Boggabri Coal and MC but she was unsure where those discussions had led to.

BC advised that he has reactivated those discussions.

PW asked if there was only one approval to carry out the work in the sections mentioned.

BC advised that stage 2 salvage had commenced and was to cover the mining footprint.

### **3. Correspondence**

Nil

### **4. Project Update**

- Update on construction activities

CS updated the CCC on recent activities.

CS advised that the raw water contractor has mobilised for construction of storage tanks and the pipeline. Leighton (Rail) have mobilised and started the vegetation clearing and top soil

stripping. Ditchfield (bulk earthworks) has started to mobilise for the bulk earth works for the MIA and CHPP and coal stockpile areas.

CS advised that road maintenance and dust mitigation measures had commenced on the local access roads to the project.

PW asked the question what's going on with water.

CS responded that MC will have storage dams onsite and pump and pipeline from the Namoi River.

PW asked where the pump sites are.

CS responded the works approval was located on the stock reserve opposite the front gate at Velyama.

PW asked where entry for staff would be.

CS advised that once the mine access road was complete that access would be off Therribri Road at "Daisymede" (near the Boggabri Coal haul road crossing) and advised that the Therribri Road would be sealed from the Iron Bridge to Daisymede.

PW asked if the lighting that is associated at the pipeline would be ongoing.

CS advised that they are security lights and would not stay on permanently they would be for the construction phase.

PW asked if Leards Forest Road would be watered due to the dust.

CS responded yes Leard Forest Road would be watered and maintained, that at present Therribri Road had been graded, compacted and had dust suppressant agent put on it. Rangari Road will also be watered.

PW asked when the sealing of Rangari Road would commence.

CS advised that the tender and shortlisting process has taken place and that it would be awarded next week. The sealing timeframe would be approximately 8-12 weeks from award.

- Update on ground water installation

CS advised that 16 bores had been constructed, however one is still required to be drilled. All GW bores have been tested and samples collected and ground water model was being re-calibrated using this new data.

The GW bore that has not been installed is due to land access agreements. MC is in the position to either work through the agreements with the land holder or move the bore to an alternate location.

DM discussed the process and seams being tested.

PW asked what was being tested.

DM advised they are SWL along with other chemical characteristics are being analysed.

PW asked if there is a production bore at Green Gully.

DM currently no mine production bores located at Green Gully.

- Monitoring results

DM presented a slide show presentation on monitoring results for which included:

- groundwater monitoring map;
- standard water levels;
- groundwater pH levels;
- surface water locations;
- surface water total suspended solids;
- surface water lab pH;
- air quality monitoring locations;
- depositional dust results;
- high volume air sampler Tralee;
- TEOM PM<sub>10</sub>
- TEOM PM<sub>2.5</sub>;

PW asked what the sampling frequency was for air quality.

DM advised every month.

PW asked what time of day the high volume air sampler was on.

DM advised it runs 24 hours cycle every 6<sup>th</sup> day.

PW asked if the MC takes into account the wind when monitoring.

DM advised that in operations if there are peaks they will be investigated and the direction of wind etc. would be taken into consideration.

PW asked if the other mines are affecting the monitoring.

JT advised that this question was brought up at the Tarrawonga CCC this morning and there are scientists that can determine this.

DM advised that he will get back to PW on this.

## **5. General Business**

PW asked if MC have any water licences.

DM advised yes for the Namoi River, zone 4, zone 5, zone 11, porous rock and a surface water licence.

PW asked if porous rock is Gunnedah – Oxley Basin groundwater source

DM responded yes is Gunnedah – Oxley Basin groundwater source

PW asked what the ultimate goal for water licences is.

DM to be used within the operation.

PW what will happen to water licences post mining.

DM water modelling will be continually updated and figures will be better perfected in year 15 of mining. This will give a better understanding of what licences will need to be retained post mining.

JT advised that at rehabilitation and mine closing stages that's when it will be identified what will happen with the water licences.

LF stated that at Tarrawonga the workers have "employee meeting points" after shift off the mine site. LF advised that these areas would need to be maintained and it was something to consider once operations started if MCC employees had a similar meeting point after their work shift.

PW what is happening with the structural integrity inspections previously suggested?

DM advised that it is an engineering review not blast testing and it will happen later in the year.

PW have the locations been selected?

DM advised that he has highlighted a few places to potentially review but no set locations as yet.

CS advised that there is a set limit of 2km in the Project Approval conditions in regards to distance from the mine, however if there are other landholders outside the limit that are concerned they should contact MCC or write to MC outlining their concerns.

PW asked what MC would extend the limit to e.g. 10kms?

CS advised that 10kms could not be justified on practical grounds but would consider each case individually

PW what is happening with the dust monitoring program discussed at last meeting? And what the timeline was?(Reference to the cumulative air quality strategy).

DM advised that it is with DPI for review, once it was approved, planning and purchase of equipment would commence, approximately two months lead time on purchase of monitoring equipment.

PW asked what the Railway line will look like over the river.

JT advised that plans were shown yesterday and suggested the PW contact Boggabri Coal for them.

PW when will the viaduct be finished?

BC approximately January next year.

PW raised concerns that some workers driving to the MAC Camp on Boston Street are travelling fast and becoming airborne on rail crossing. PW has advised MAC Camp and MAC has asked him to get number plates of vehicles.

CS advised he will look into this.

LF wanted to thank Leighton's for sponsoring the Maules Creek cricket day

DM advised that LF should send a thankyou letter to Leighton..

JT advised that at the Boggabri meeting he invited views as to what to do with the VPA monies. JT proposed that in 1 month time he would write to CCC representatives to get an idea and thoughts on VPA monies. JT also stated we should put some thought into having a subcommittee for the monies (a few people from each CCC) or arrange a combined meeting to get a final recommendation. The value of the monies is \$300,000 one off upfront payment and then based on tonnes per year.

There were no objections.

PW asked that we get Newsletters out to wider community including information on mile stones.

Newsletters currently sent to residence with mail delivered out of the Boggabri post office, MCC will look into extending the delivery range.

Newsletters are also available on the WHC website.

Proposed next meeting 14<sup>th</sup> May

TC asked if DM could send out a calendar invite for the next meeting.

**Meeting Closed:** 4:15pm

## **Minutes of the 5<sup>th</sup> Meeting of the Maules Creek Coal Community Consultative Committee**

- Meeting Held:** 21st May 2014, 2:30pm
- Venue:** Maules Creek Coal, Finance Office Boardroom, Boggabri
- Present:** Mr John Turner, Chair for CCC (JT)  
Mr Peter Watson, Community Rep (PW)  
Clr Lloyd Finlay, Narrabri Shire Rep (LF)  
Ms Carolyn Nancarrow, Community Rep (CN)  
Ms Toni Comber, Community Rep (TC)  
Mr Daniel Martin, Environment & Heritage Manager (DM)  
Mr Craig Simmons, Area Manager Services (CS)  
Mr Brian Cole, Executive General Manager – Project Delivery (BC)
- Apologies:** Mr Jason Davis, Community Rep (JD)  
Mr Rod Woolford, Community Rep (RW)
- Observer** Clr Cath Collyer

1 Declaration of pecuniary or other interests

JT declared he received a fee for chairing the meeting

### **2 Confirmation of Last Minutes**

JT requested comments on previous minutes and that minutes be accepted.  
LF moved that the minutes of the last joint meeting be accepted PW seconded

### **3 Business Arising from Previous Minutes**

- Nil

### **4 Correspondence**

- DoE Acceptance of the Biodiversity Offset Package
- DoPI Approval of the Biodiversity Management Plan
- DoPI Approval of the Water Management Plan

- Community Correspondence
  - Traffic on Leard Forest Rd – flashing lights, dust generation and condition of the road surface. Issues were addressed with Staff and Contractors and road was under continual maintenance.
  - Light spill/pollution from site. Issue addressed and light direction changed
  - Construction blasting. Notification of blasting and levels experienced at private properties. Monitors set up at private houses to monitor events.
  - Wheel generated dust of Therribri Rd. Direction given to Area Managers to make sure road traffic is not generating excessive dust.

## 5 Project Update

- Update on construction activities

BC updated the CCC on recent activities.

BC – advised that the construction process was approximately 40% complete.

- Rail overview, tracking very well with most of the earth works nearing completion.
  - Long lead items were the viaduct over the Namoi flood plain and the Hwy crossing.
  - Ballast and track laying will begin in the coming months
- Bulk earthworks for mine infrastructure was progressing very well and areas starting to be released to other contractors to start the erection of equipment
- Train load out facility had begun erection
- Water pipe line was completed
- Transgrid/UGL were due to start the construction on the high voltage power for site
- CHPP construction was starting with early fabrication of equipment in laydown yards off site.

Questions raised;

PW – Is it the intention for all mine traffic to use the current Hwy overpass when the rail line was completed.

CS – Ideally, however further negotiation was required with Boggabri Coal for access to be granted.

CN – What road will be used if Hwy overpass is not used.

CS – Current approved route will be over the Namoi River on the Iron Bridge, Turn left onto Therribri Road, travel along Therribri Road for approximately 4km turn into the current Boggabri Haul Rd and travel through to site. This road will be sealed as part of the approval.

- Monitoring results

DM presented a slide show presentation on monitoring results for which included:

- groundwater monitoring map;
- standard water levels;
- groundwater pH levels;
- surface water locations;
- surface water total suspended solids;
- surface water lab pH;
- air quality monitoring locations;
- depositional dust results;
- high volume air sampler Tralee;
- TEOM PM<sub>10</sub>
- TEOM PM<sub>2.5</sub>;
- Attenuated Noise results

## **6 General Business**

### **A) Environmental Trust**

JT read out correspondence from the DP&EI on the Community Environmental Trust Fund. Suggested sub committee be formed with a participation from CCC members and NSC representatives.

TC – Are the other CCC's happy with this format.

JT- Yes

JT – The Environment fund application process could be run by the General Manager of NSC and the sub committee to oversee where the dollars are to be spent.

JT- Will take this up with NSC GM and discuss this approach if the CCC is happy. When calling for grants the process needs to be transparent.

JT- will not sign off on the plan until good governance has been established.

PW- Would a project proposal be voted on to get the go ahead.

JT – consensus is preferred but a vote would be used if required.

JT – Called for nominations from the CCC to be a part of the Sub Committee. CN nominated and was accepted.

JT – Requested DM to speak with RW and JD to see if they would like to nominate for the Sub Committee.

CC and LF are already nominated for the Sub Committee as Narrabri Shire Councillors.

#### B) Regional Monitoring Plan

JT raised letter from EPA in answer to his request that a representative address the meeting. Letter said to early for representative to attend and EPA were consulting which should be completed by June.

CC said NSC was going to take the matter of the delay in the plan up with state MPs Kevin Humphries MP and Kevin Anderson MP.

PW asked if follow up would occur because it is nearly June.

JT will do follow up letter.

#### Other Business

LF- noted that he was generally happy with the actions taken on the local road network. Mentioned that the roads when maintenance works needed to be sign posted more clearly and Johnson's gravel trucks have been causing dusty conditions on Maules Creek local road network.

CN – Contractors are not obeying road signs and people are travelling too quickly up and down the road from the Boggabri MAC Camp.

CS – Has raised this with all Project Managers and Contractors to address their employees, however if you see this behaviour please get the details of the vehicle and time of the event and pass them onto myself.

PW – Raised the issue of the road network around Maules Creek being closed by the Police. Inconvenient to local people and they should give more warnings when this is going to take place.

BC- The Police do not give WHC detailed notice of its plans in relation to preservation of the law.

PW – Requested that an engineering report be completed on his property prior to blasts taking place.

DM – Please put it in writing to the company and it will be reviewed case by case if the buildings are outside the affected zone.

DM – Any comments, questions regarding the BMP?

PW – Claimed that changes to the Biodiversity Management Plan relating to clearing conditions, in particular the allowable time of the year when clearing was permissible. PW further claimed that the condition in the current document in relation to the permitted time of clearing was different to conditions contained in the original document.

BC – To clarify, no changes were made to the permitted clearing times in moving from the previous approved BMP to the currently approved BMP. Clearing was permitted to take place in winter in both approved versions of the BMP. BC suggested that PW refer to the words in the BMP's as they were very clear. BC offered that DM would send through the extracts relating to clearing from the two BMP's that show winter clearing was able to take place under both versions.

Proposed next meeting TBA for August 2014

DM advised a calendar invite would be sent out by email

**Meeting Closed:** 4:15pm

## **Minutes of the 6<sup>th</sup> Meeting of the Maules Creek Coal Community Consultative Committee**

- Meeting Held:** 6<sup>th</sup> of August 2014, 3.45pm
- Venue:** Maules Creek Coal, Finance Office Boardroom, Boggabri
- Present:** Mr John Turner, Chair for CCC (JT)  
Clr Lloyd Finlay, Narrabri Shire Rep (LF) (entered 4.10pm)  
Ms Toni Comber, Community Rep (TC)  
Mr Alistair Todd, Alternate Community Rep (AT)  
Mr Daniel Martin, Environment & Heritage Manager (DM)  
Mr Craig Simmons, Area Manager Services (CS)  
Mr Brian Cole, Executive General Manager – Project Delivery (BC)  
Mr Peter Wilkinson, General Manager – Maules Creek
- Apologies:** Mr Jason Davis, Community Rep (JD)  
Mr Rod Woolford, Community Rep (RW)  
Mr Peter Watson, Community Rep (PW)  
Greening Australia
- Observer** Ros Druce
- Guest** Richard Kirwood, Resource Strategy  
Jamie Gleeson, Resource Strategy

### **1 Declaration of pecuniary or other interests**

JT declared he received a fee for chairing the meeting

### **2 Confirmation of Last Minutes**

JT requested comments on previous minutes and that the minutes be accepted.  
LF moved that the minutes of the last joint meeting be accepted BC seconded

### 3 Correspondence

- DP&E Approval of the Blast Management Plan
- Maules Creek Community Council response to revised Biodiversity Management Plan
  - AT no further comments for the revised Biodiversity Management Plan as there is a connection to the court proceedings.
- Gomeroi Traditional Custodians (GTC) letter to JT for CCC on a number of concerns.
  - WHC provided a letter to JT, requesting a deferred response to concerns raised by GTC so the CCC can view WHC detailed response to items raised.
  - WHC to provide a response on the GTC letter in approximately 2 weeks.

### 4 Business Arising from Previous Minutes

- Environmental Trust Fund;
  - Rod Woolford was happy to be nominated to represent Maules Creek CCC,
  - JT advised he had written to the GM of Narrabri Shire Council asking if council was prepared to assist in the advertising and application stages of the grant process but had not received a reply to date.
  - LF said he had spoken to the GM and that JT would receive a reply within two weeks.

### 5 Project Update

- Update on construction activities

BC updated the CCC on recent activities.

BC – advised that the construction process was approximately 55% complete.

- Rail overview, tracking very well with most of the earth works nearing completion.
  - Viaduct over the Namoi flood plain and the Hwy crossing well advanced with remaining beams ready to be installed
  - Ballast and track laying will begin in the coming month
- Bulk earthworks for mine infrastructure was 80% complete, progressing very well and areas starting to be released to other contractors to start the erection of equipment
- Erection of the train load out facility had begun

- Water pipe line has been completed
- Transgrid/UGL high voltage power for site is underway with poles erected and lines strung between poles; work on switch yards currently progressing.
- CHPP construction was starting with early fabrication of equipment in laydown yards off site.

#### Update on operation activities

PW updated the CCC on recent activities.

- Mining Equipment coming to site and being assembled
  - EX 3600 available to start digging
  - 3 x 789 Trucks available for overburden removal
  - Ancillary equipment eg. dozer, grader, ready to start operation activities
- Offers of employment have been sent to first work crews
- Operation to start day time activities mid March
- Site based personnel requirements will be built up over the next 6 months.

TC – have there been any Indigenous people employed as part of the project.

PW – Maules Creek Coal has a target of 10% Indigenous employees.

BC - Currently on site working on construction there are nine Gomileroi indigenous employees whose employment has been facilitated by WHC.

AT – will coal be stockpiled in prior to transporting off site.

PW – We plan to uncover coal reasonably quickly by December 2014, this will be then stockpiled prior to being handled and transported from site.

- Monitoring results

DM presented a slide show presentation on monitoring results for which included:

- groundwater monitoring map;
- standard water levels;
- groundwater pH levels;
- surface water locations;
- surface water total suspended solids;
- surface water lab pH;
- air quality monitoring locations;
- depositional dust results;

- high volume air sampler Tralee;
- TEOM PM<sub>10</sub>
- TEOM PM<sub>2.5</sub>;
- Attended Noise results

AT- Is there a possibility the company would undertake further monitoring in other locations in the Maules Creek valley.

DM – Would discuss the possibility with Maules Creek management and provide feedback.

AT- Currently people can hear both Boggabri Coal and Maules Creek and would be good to know if there is a difference in noise being produced.

## 6 General Business

### A) Presentation of the Revised Biodiversity Management Plan.

- No comments were received from the floor

### B) Community Enquires

- **Blast Event 17<sup>th</sup> of June**

AT – SMS notifications are a great idea and maybe Maules Creek should advertise that there is this service available.

AT- Should blast notification list from each of the WHC operations be combined for better coverage.

DM – At this stage, Maules Creek Coal will keep it separate due to the distance to the southern operations.

AT – How will blasting effect live stock? Property owners already concerned that the noise from past blasts has scared live stock.

AT – How many blasts per week?

DM – We are allowed an average of 4 blasts per week greater than 0.5mm/s at the nearest private residence

AT – How far is fume likely to travel?

PW – Unlikely to travel further then 500ms. Management action to minimise fume are in line with the Blast MP, notification of a potential fume event is also in line with the Blast MP. As the Blast MP is a live document changes are able to be made if current practices are not sufficient.

- **Maules Creek Monitoring Data**

DM provided an overview of what was going up onto the Whitehaven Coal website. Approximately each month the Community Enquires register will be updated and posted on the site. The EPL monitoring data is going to be posted each month after it has been reviewed and the Annual Monitoring review will be posted by Friday the 15<sup>th</sup> of August.

- **Noise Event on the 18<sup>th</sup> to the 21<sup>st</sup> of July**

DM provided results from two continuous noise monitors. The results provided show measurements in the L90dBA to 630Hz range that could be contributed to project noise at the monitoring device. The results were in the acceptable range.

- **Providing Wind Roses**

DM provided an overview of the 2013 year wind roses which were requested by a community member.

### **C) Questions/Comments from the CCC**

LF Vehicle Behaviour from Project personnel still needs to be addressed.  
DM requested the vehicle identifications be recorded and passed on.  
CS to raise with other Area Managers to address with their staff.

LF People trespassing through his property late at night.  
CS will pass this onto security.

LF would like to thank Paul Flynn for recently presenting to the Narrabri Shire Council, it was well received and appreciated.

JT Proposed next meeting TBA for November 2014, it will be in two parts a combined CCC meeting with Boggabri Coal and Tarrawonga and a standalone project CCC meeting.

JT Mentioned that the minutes will be finalised and submitted to WHC to place on the internet in the 28 day time frame.



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**Meeting Closed:** 5:15pm

## **Minutes of the 7<sup>th</sup> Meeting of the Maules Creek Coal Community Consultative Committee**

**Meeting Held:** 18<sup>th</sup> of November 2014, 2.00pm

**Venue:** Maules Creek Coal, Boggabri

**Present:**

- Mr John Turner, Chair for CCC (JT)
- Clr Lloyd Finlay, Narrabri Shire Rep (LF) (entered 2.40pm)
- Ms Toni Comber, Community Rep (TC)
- Ms Carolyn Nancarrow, Community Rep (CN)
- Mr Peter Watson, Community Rep (PWa)
- Mr Jason Davis, Community Rep (JD)
- Mr Daniel Martin, Environment & Heritage Manager (DM)
- Mr Craig Simmons, Area Manager Services (CS)
- Mr Brian Cole, Executive General Manager – Project Delivery (BC)
- Mr Peter Wilkinson, General Manager – Maules Creek (PWl)

**Apologies:** Mr Rod Woolford, Community Rep (RW) (received after the meeting by email)

**Observer** nil

**Guest**

- Richard Kirwood, Resource Strategy
- Josh Peters, Resource Strategy

### **1 Declaration of pecuniary or other interests**

JT declared he received a fee for chairing the meeting

### **2 Confirmation of Last Minutes**

JT requested comments on previous minutes and that the minutes be accepted.

TC thought the minutes from the previous meeting simplified the GTC letter.



TC moved that the minutes were accepted as long as the first comment was acknowledged. BC seconded

### **3 Business Arising from Previous Minutes**

- MCCC comments on Biodiversity Management Plan – any further comments from the CCC?  
Nil
- Gomerai Traditional Custodians (GTC) letter to CCC;
  - TC – questioned why the letters were not forward to members of the CCC? JT – said the letter from GTC, received by him at the meeting of 6<sup>th</sup> August 2014 required comprehensive information from WHC which was received after the meeting and forwarded by him, with a covering letter, to GTC. He followed normal meeting procedure by asking the correspondence to be tabled at the next meeting.
  - TC – Letter should be sent to the entire CCC so the members can read them prior to the meeting. JT agreed, as long as they were direct issues for the CCC to be involved in and not just for the company to respond to.
  - BC – Has a response to the WHC response letter been provide to the Red Chief.
  - TC – Red Chief is not a member of the GTC and a letter has not been provided
- Environmental Trust Fund – First meeting of the subcommittee will follow the joint CCC meeting tomorrow 19 Nov 2014.

### **4 Correspondence**

- Letter by JT to Ms Talbott enclosing letter from WHC answering matters raised by Ms Talbott by undated letter received 6/8/2014, tabled
- DP&E Approval of the updated Traffic Management Plan – use of Goonbri Road
- DP&E Approval of the revised Biodiversity Management Plan
- EPA Official Caution (Dust)
- DPE Penalty Notice – For not operating the CCC generally in accordance with the Department's guidelines
- DPE Letter to facilitate access to cultural heritage sites for GTC

### **5 Company Reports and overview of activities**

- Update on construction activities

BC updated the CCC on recent activities.

BC – advised that the construction process was well advanced and nearing completion.

- Construction is two months ahead of schedule and within budget
- Zero LTI's or serious incidents
- Rail overview, tracking very well, all of the earth works nearing completion.
  - Ballast and track laying has commenced and is progressing
- Bulk earthworks for mine infrastructure was nearly complete, finalisation of permanent water structures are taking shape
- Water pipe line has been completed
- Transgrid/UGL high voltage power for site is underway with work continuing on the switchyards and substation
- CHPP and train load facility (TLO) were advancing well with construction taking place on site

PWi updated the CCC on recent operation activities.

- Pit development and Overburden placement was on track to meet expected coal railings
- Site based personnel numbers have started to increase (approx. 73ppl)
- Target of 10% of Indigenous workforce being achieved
- Experienced Indigenous trainer has commenced with Maules Creek
  - TC – Who is the Indigenous trainer? PWi – Steve Burgess
  - TC – What % is the fly in fly out workforce. PWi didn't have the current % on hand. Rosters not suitable for fly in fly out. It is envisaged that people will move into the local area and be a part of the local community. By the end of February local employment will be about 35% and the majority of the workforce will live in the local area. WHC is not sponsoring permanent people to stay in the camp long term. Operational people are charged a fee to stay in the camp which increases over time, this will encourage people to relocate to the local area.
  - PWa – What do you mean not suitable for fly in fly out? PWi –WHC has created rosters that are not suitable for fly in fly out workers,
  - PWa – What is the depth to first coal? PWi – approximately 10 metres
  - PWa - When is shipping of coal starting? PWi – January 2015
  - JD – What size is the mine area? PWi – Currently approximately 1000metres by 800metres
  - JD – When will rehab start? PWi – timing dependent, when areas become available, however rehab will be progressively undertaken
- PWi – A lot of work has been centred around dust control on site. MCC has increased the number of water carts on site, commenced the use of dust suppressant agents to the water prior to spraying on roads to help with dust control, increased number of fill points for trucks to improve turnaround time.



CS presented monitoring results which included:

- Groundwater – standing water levels, pH and electrical conductivity (EC) levels;
- Surface water - total suspended solids (TSS), pH and EC;
- Air quality - depositional dust, high volume air sampler, TEOM PM10 and PM2.5 results;
- Attended Noise results
- Blast results
- Community Complaints Register

PWa – Requested a copy of the monitoring summary. CS Said he would provide this to the CCC.

PWa – Indicated that a map would be handy to understand where the monitoring locations are.

JD – Will the noise levels due to the mine increase over time? PWi – At the moment only half the operational fleet is working on site. So the general sound power level from the site will increase. However it is worth noting that the construction machinery will start to be scaled back as the operational fleet start up.

## **6 General Business**

### **A) Presentation of the Revised Water Management Plan.**

- Recently been updated following AEMR 2013
- Includes updated water monitoring results
- Comments on the Water Management Plan
  - PWa – Requested more time to make a comment on the plan. CS agreed to allow more time
  - PWa – How does the mine account for groundwater inflows into the pit? Farmers are required to measure groundwater in bores so why don't miners? RK – It is not an easy process to exactly monitor ground water inflows. A series of in pit dams capture the inflow and are metered when pumped out. Due to the area of inflow, allowing for evaporation and mixing of other water sources (rain) it is not an exact amount recorded.
  - PWa – How can the mine impact the Maules Creek water system and continue with their work when other agricultural users have to stop pumping at certain points in time along this system. DM – took question on notice and provides the following response. “The modelling from the EA shows that the influence from the mine on this alluvium system is minor, notwithstanding the modelled predictions Maules Creek Coal holds the appropriate water licences for the modelled predictions.



**B) Presentation of the Aboriginal Archaeological and Cultural Heritage Management Plan**

- Recently updated to reflect current status following the salvage program
- Currently out for consultation with OEH, LLS (formally CMA) and RAP's
- Also distributed to CCC members for comment
- Comments on the Management Plan
  - TC – No comments at this time however was not happy with the content of the Management Plan

**C) General Questions raised from the CCC**

LF – Are there plans of using the highway to gain entry to site. CS – Yes but not in the short term, as there are further discussions and negotiations required prior to this being possible.

LF – When will this be the site access? CS – Exact timing is not known, Current way to site is along the approved access route, via Therribri Road (once the mine access road is opened), which is in the Traffic Management Plan.

PWa – Speeding vehicles still occurring up the Caloola Road. This was taken on notice and MCC will address with employees and contractors

**D) Further comments on letter from GTC to CCC**

JT – Provided background, WHC drafted a response letter to GTC, once received by John, John then directed correspondence directly to the GTC. There has been no response from the GTC even though a considerable period has passed.

TC – Not happy with the WHC response letter and would like to recommend that the GTC be invited to make a presentation to the CCC to air their concerns.

JT - At this point in time the CCC should remain across the community issues as this letter appears to be handled by the Company, the Regulators and GTC. Unless there is an area that the CCC is involved in then we should wait to see the outcome of the response.

JT – will write to GTC to see if there was any further correspondence required.

**Meeting Closed:** 3:35pm

## Maules Creek Coal Mine Community Consultative Committee Meeting #7

### Environmental Monitoring Report Q3 July - September 2014

#### Noise Monitoring

Noise monitoring was undertaken at the locations as per the approved noise management plan on the 23<sup>rd</sup> July, 4<sup>th</sup> September, 29<sup>th</sup> September and 1<sup>st</sup> October 2014. The measured noise level (LAeq15) attributed to Maules Creek Coal and applicable criteria for each location are shown in the Tables below. The results show that mine operations did not exceed the applicable LAeq15 criteria at any time.

During this reporting period, noise monitoring has transitioned from construction to operational with additional Evening and Night time monitoring taking place.

#### Tables - LAeq, 15minute GENERATED BY MCC AGAINST OPERATIONAL NOISE CRITERIA – JULY TO SEPTEMBER 2014

##### July Noise Monitoring

Location	Date	Start Time	Wind Speed	Rainfall	Criterion	Criterion	MCC LAeq	Exceedance
			m/s	mm	dB	Applies 1	dB 2,4	dB 3,4
NM1	23/07/2014	9:25	1.6	0	40	Yes	<30	Nil
NM2	23/07/2014	8:29	0.5	0	40	Yes	33	Nil
NM3	23/07/2014	10:29	1.9	0	40	Yes	<30	Nil
NM4	23/07/2014	8:56	1.3	0	40	Yes	30	Nil
NM5	23/07/2014	9:49	1.1	0	40	Yes	28	Nil
Cooboobindi	23/07/2014	10:56	0.6	0	45	Yes	<25	Nil

##### August Noise Monitoring

Location	Date	Start Time	Wind Speed	Rainfall	Criterion	Criterion	MCC LAeq	Exceedance
			m/s	mm	dB	Applies 1	dB 2,4	dB 3,4
NM1	4/09/2014	8:25	1	0	40	Yes	32	Nil
NM2	4/09/2014	9:48	1.8	0	40	Yes	24	Nil
NM3	4/09/2014	11:07	2.6	0	40	Yes	25	Nil
NM4	4/09/2014	8:52	0.8	0	40	Yes	29	Nil
NM5	4/09/2014	8:00	1.5	0	40	Yes	34	Nil
Cooboobindi	4/09/2014	11:41	2	0	45	Yes	<25	Nil

(August monitoring undertaken in September due to unfavourable weather conditions i.e. high wind etc).

##### September Noise Monitoring

Location	Date	Start Time	Wind Speed	Rainfall	Criterion	Criterion	MCC LAeq	Exceedance
			m/s	mm	dB	Applies 1	dB 2,4	dB 3,4
NM1	19/09/2014	10:59	2.2	0	40	Yes	1A	Nil
NM2	19/09/2014	9:03	1.8	0	40	Yes	23	Nil
NM3	19/09/2014	8:27	1.3	0	40	Yes	31	Nil
NM4	19/09/2014	10:31	1.4	0	40	Yes	<20	Nil
NM5	19/09/2014	11:25	1.6	0	40	Yes	1A	Nil
Cooboobindi	19/09/2014	8:00	1.3	0	45	Yes	35	Nil

**Noise Monitoring – Operations**

Location	Start Date	Time	Wind Speed m/s	Rainfall mm	Criterion dB	Criterion Applies	MCC LAeq dB <sup>2,4</sup>	Exceedance dB <sup>3,4</sup>
NM1	29/09/2014	21:02	0.2	0	35	Yes	<20	Nil
NM1	30/09/2014	20:45	0.3	0	35	Yes	IA	Nil
NM1	29/09/2014	22:27	0.5	0	35	Yes	<20	Nil
NM1	30/09/2014	22:26	0.3	0	35	Yes	IA	Nil
NM2	29/09/2014	20:07	0.9	0	39	Yes	20	Nil
NM2	30/09/2014	19:50	0.8	0	39	Yes	IA	Nil
NM2	29/09/2014	23:23	0.2	0	39	Yes	IA	Nil
NM2	30/09/2014	23:20	2.8	0	39	Yes	IA	Nil
NM3	29/09/2014	19:11	0.8	0	35	Yes	25 <sup>5</sup>	Nil
NM3	30/09/2014	18:54	0.6	0	35	Yes	<20	Nil
NM3	30/09/2014	0:23	0.2	0	35	Yes	28 <sup>5</sup>	Nil
NM3	1/10/2014	0:14	1.4	0	35	Yes	<20	Nil
NM4	29/09/2014	20:34	0.5	0	35	Yes	20	Nil
NM4	30/09/2014	20:17	0.6	0	35	Yes	IA	Nil
NM4	29/09/2014	22:55	0.4	0	35	Yes	<20	Nil
NM4	30/09/2014	22:53	0.7	0	35	Yes	IA	Nil
NM5	29/09/2014	21:27	0.4	0	35	Yes	<20	Nil
NM5	30/09/2014	21:14	0.4	0	35	Yes	IA	Nil
NM5	29/09/2014	22:01	0.3	0	35	Yes	<20	Nil
NM5	30/09/2014	22:00	0.5	0	35	Yes	IA	Nil
NM6	29/09/2014	19:41	1	0	35	Yes	IA	Nil
NM6	30/09/2014	19:21	1.4	0	35	Yes	IA	Nil
NM6	29/09/2014	23:53	0.1	0	35	Yes	IA	Nil
NM6	30/09/2014	23:47	2	0	35	Yes	IA	Nil

**Evening L<sub>Aeq15min</sub> Night L<sub>Aeq15min</sub> Night L<sub>A1min</sub>**

**Notes:**

- Noise emission limits do not apply during periods of rainfall or wind speeds greater than 3 metres per second (at 10 metres);
- Estimated or measured LAeq,15minute attributed to Maules Creek Coal (MCC);
- NA in exceedance column means atmospheric conditions outside those specified in project approval and criterion is not applicable;
- Bolded results in red indicate exceedance of criteria; and
- MCC contribution measured at Olivedene has been adjusted for distance loss to be representative of NM3.

In addition to the 15 minute average for Day Evening and Night, the Maules Creek Coal (MCC) EPL20221 also has a '1 Minute - Night' criteria (LA1) that applies from 10pm to 7am Monday to Saturday & 10pm 8am Sundays and Public Holidays. The results for the LA1 monitoring are shown below in Table 2. The results show that mine operations did not exceed the applicable LA1 criteria at any time.

**Table 2 - LA1, 1minute GENERATED BY MCC AGAINST OPERATIONAL NOISE CRITERIA – SEPTEMBER 2014**

Location	Start Date	Time	Wind Speed m/s	Rainfall mm	Criterion dB	Criterion Applies	MCC LA1 dB <sup>2,4</sup>	Exceedance dB <sup>3,4</sup>
NM1	29/09/2014	22:27	0.5	0	45	Yes	23	Nil
NM1	30/09/2014	22:26	0.3	0	45	Yes	IA	Nil
NM2	29/09/2014	23:23	0.2	0	45	Yes	IA	Nil
NM2	30/09/2014	23:20	2.8	0	45	Yes	IA	Nil
NM3	30/09/2014	0:23	0.2	0	45	Yes	29 <sup>5</sup>	Nil
NM3	1/10/2014	0:14	1.4	0	45	Yes	<20	Nil
NM4	29/09/2014	22:55	0.4	0	45	Yes	<20	Nil
NM4	30/09/2014	22:53	0.7	0	45	Yes	IA	Nil
NM5	29/09/2014	22:01	0.3	0	45	Yes	23	Nil
NM5	30/09/2014	22:00	0.5	0	45	Yes	IA	Nil
NM6	29/09/2014	23:53	0.1	0	45	Yes	IA	Nil
NM6	30/09/2014	23:47	2	0	45	Yes	IA	Nil

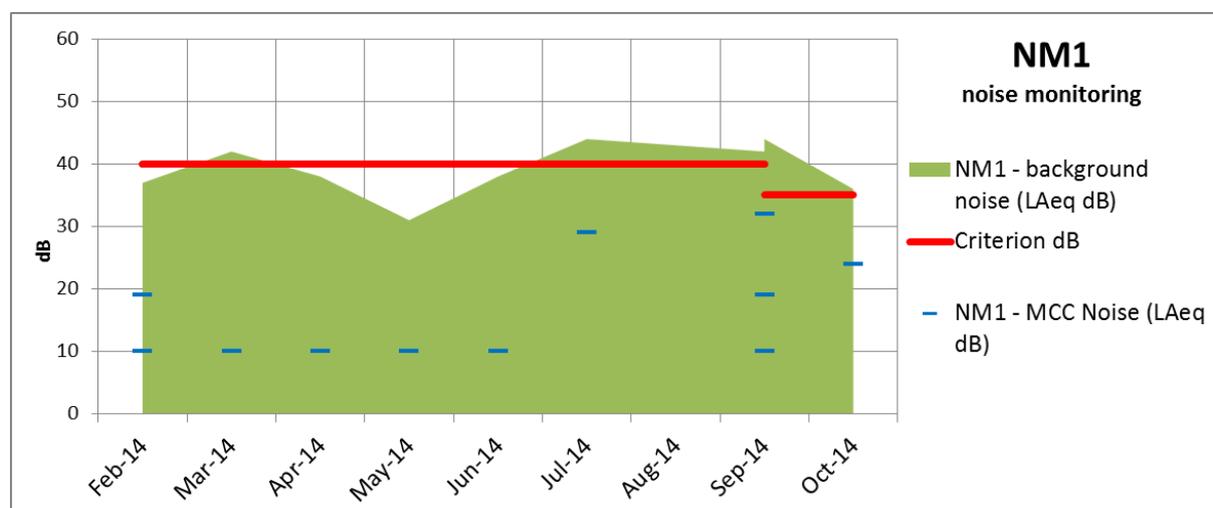
**Notes:**

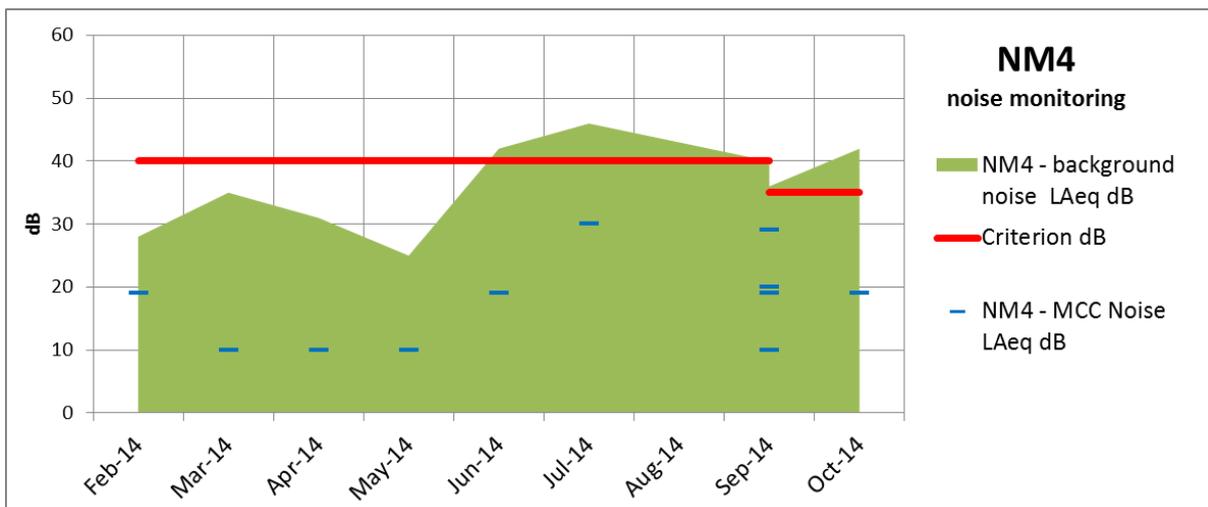
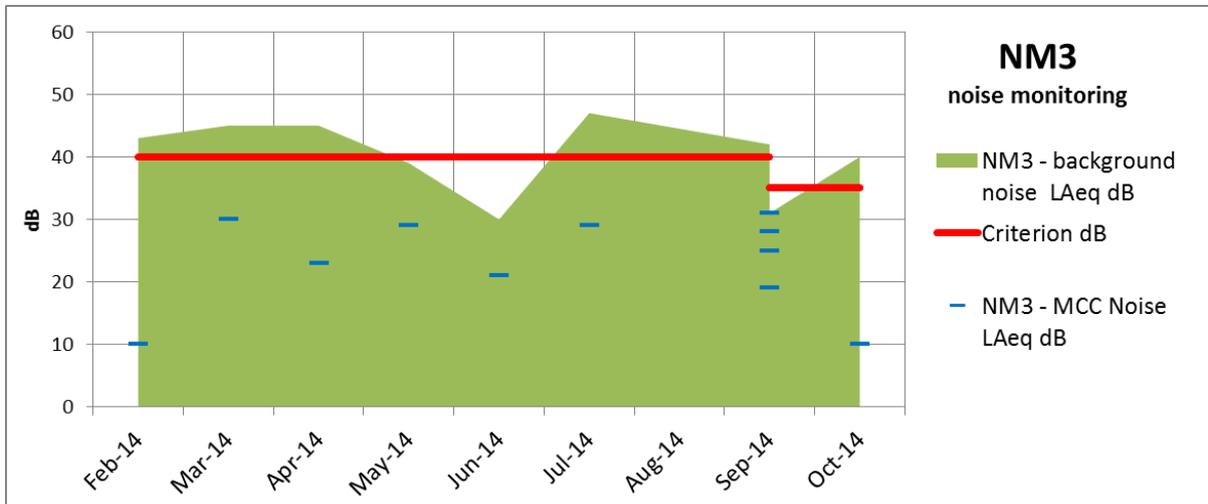
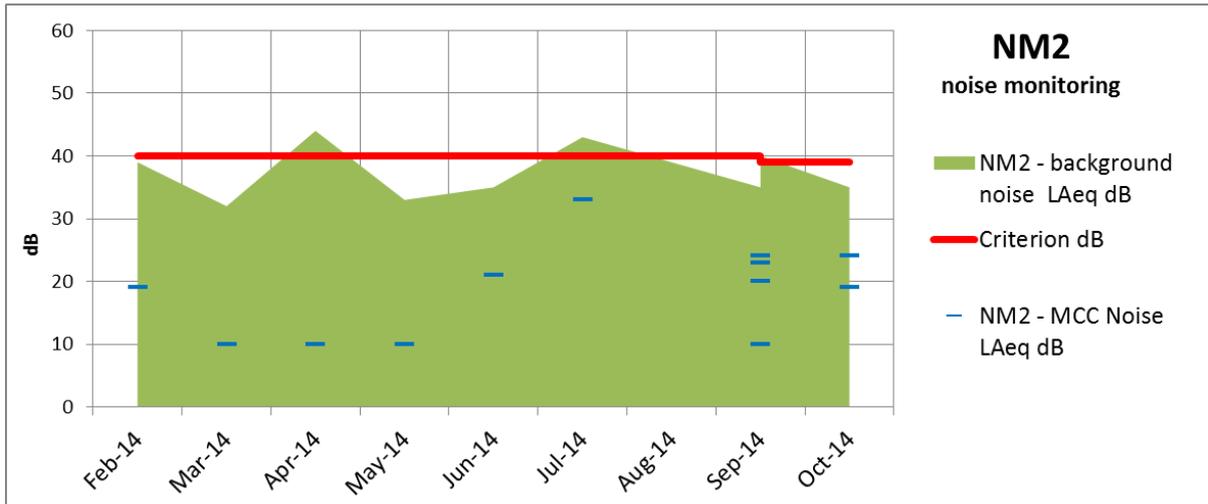
- Noise emission limits do not apply during periods of rainfall or winds greater than 3 metres per second (at a height of 10 metres);
- Estimated or measured LA1,1minute attributed to Maules Creek Coal (MCC);
- NA in exceedance column means atmospheric conditions outside those specified in project approval and so criterion is not applicable;
- Bolded results in red indicate exceedance of criteria. and
- MCC contribution measured at Olivedene has been adjusted for distance loss to be representative of NM3.

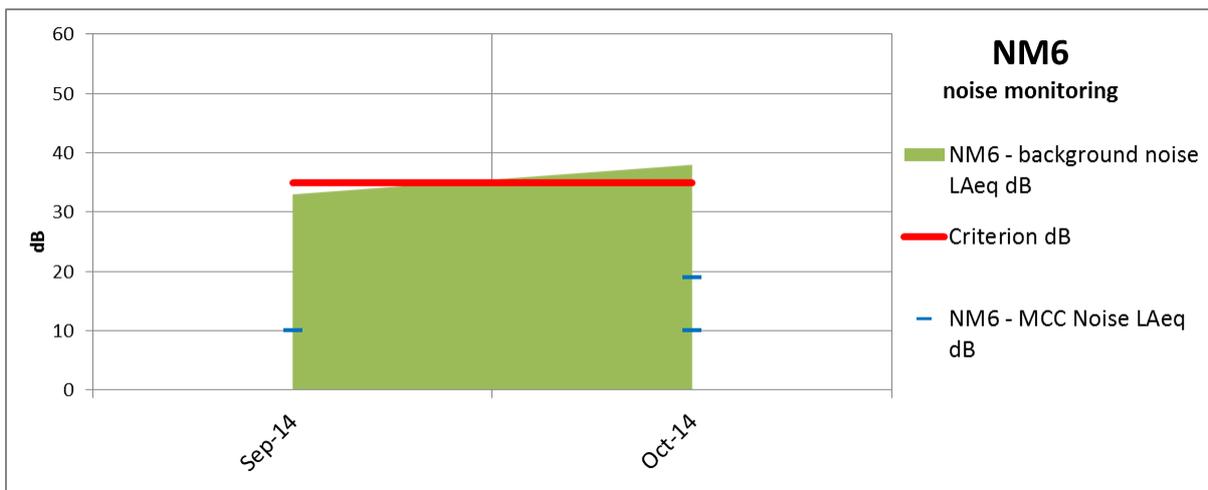
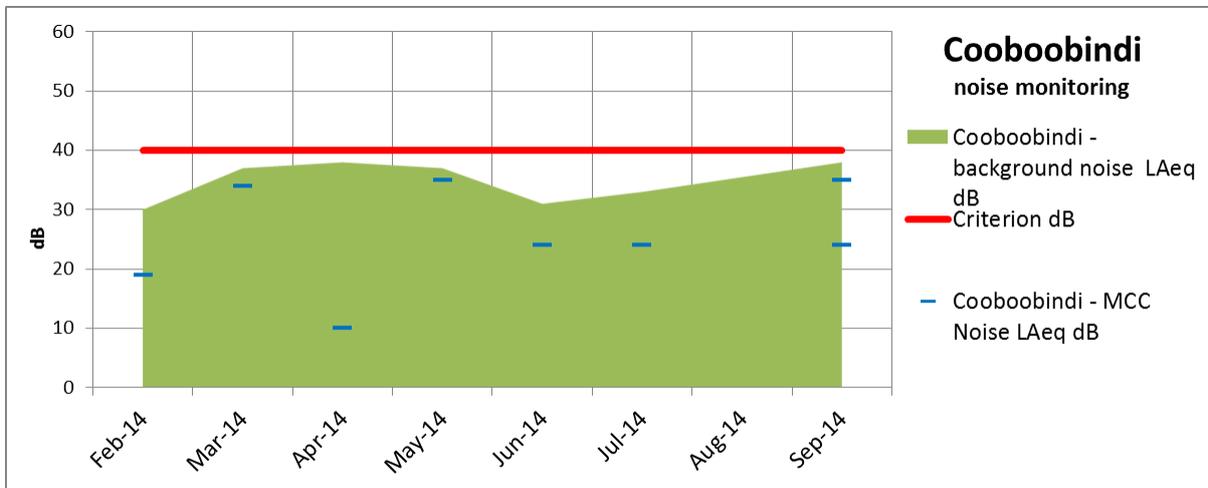
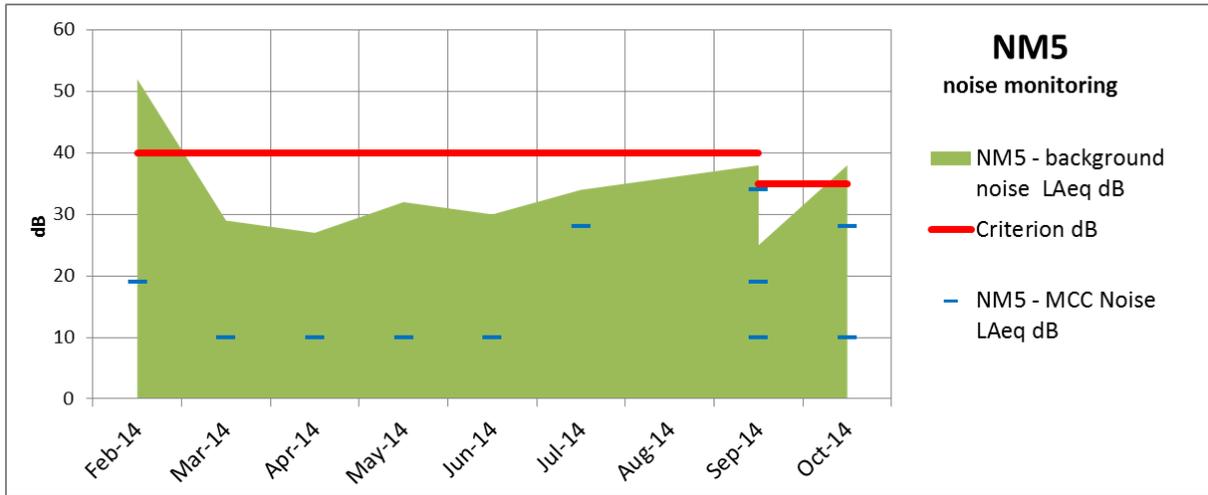
**Attended Noise Monitoring**

The following seven (7) figures below show the ‘attended’ noise monitoring results recorded since construction began in earnest in January 2014. During the construction phase, noise monitoring was also conducted at the private property closest to the mine, Cooboobindi. Monitoring at Cooboobindi ceased at the conclusion of construction related bulk earthworks and blasting for the rail alignment.

Green shading shows the LA<sub>eq (15minute)</sub> background noise and the blue dash is the portion of the LA<sub>eq</sub> likely attributed to the mine according to the sound engineer. The criteria shown in red, was updated to align with the transition from construction to operations / mining.







**Blast Monitoring**

Approval to commence construction at Maules Creek Coal was given in December 2013 and since then; there have been 70 smaller ‘construction’ related blast events. Mine operations commenced in August 2014 and there have been 18 blast events to date (w/e 7<sup>th</sup> November 2014). All construction and operational blast events have been within the applicable Noise and Ground Vibration limits.

All blast monitoring results have been within the MCC EPL limits.

Location	Parameter	Units	Frequency	Number	Average	Max	100% Limit	Exceedance (Yes / No)
Construction Blasts*	Noise	Db <sub>(Lin Peak)</sub>	All	25	94.6	100.0	120	No
	Vibration	mm/s		25	<0.5	<0.5	10	No
Operations Blasts	Noise	Db <sub>(Lin Peak)</sub>	All	10	100.48	114.2	120	No
	Vibration	mm/s		10	0.21	0.58	10	No

\*Construction related blasting concluded August 2014

**Air Quality**

**Deposited Dust**

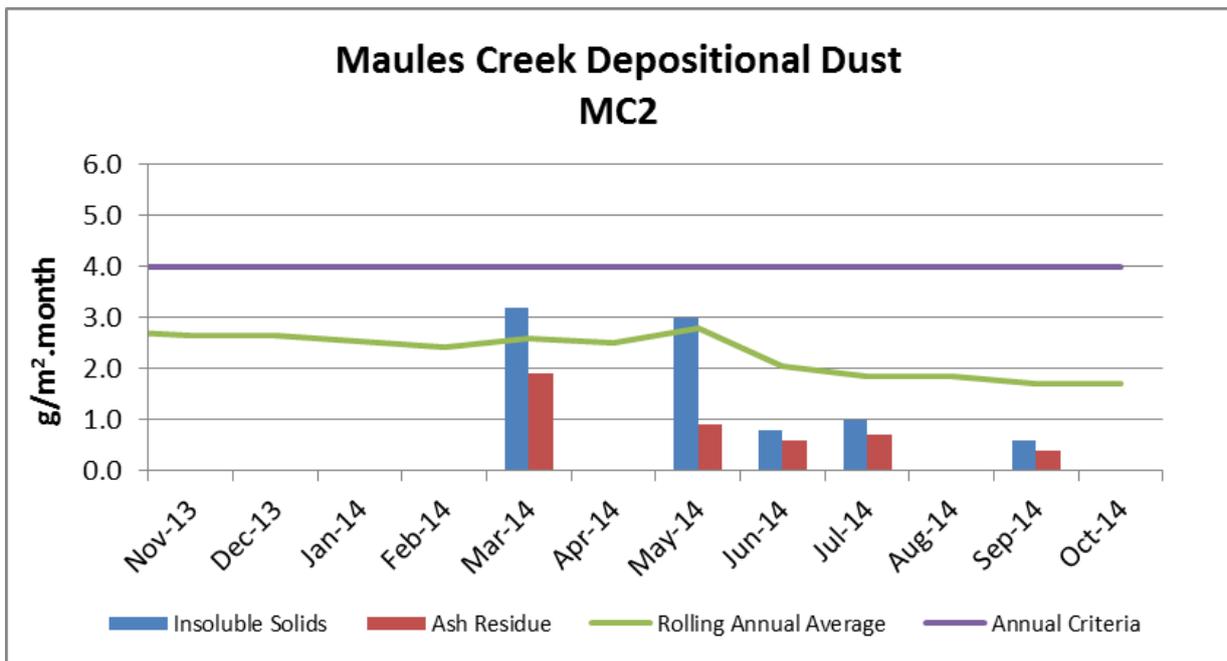
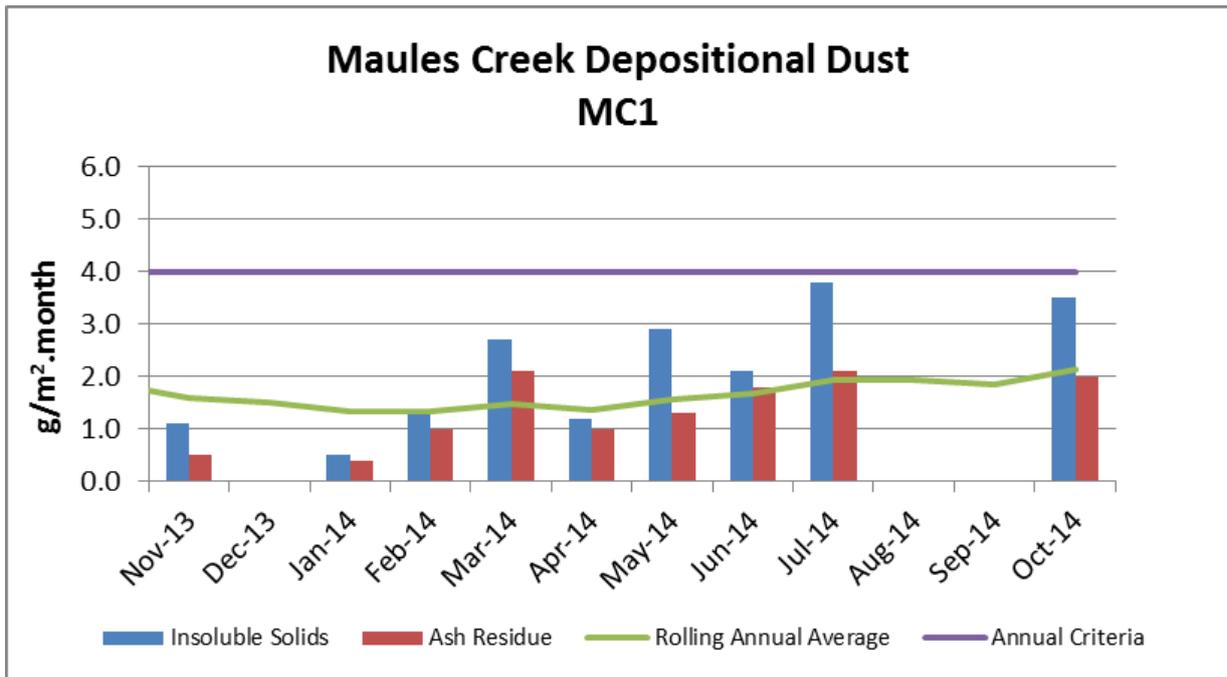
**Table 4 - Deposited Dust Results \***

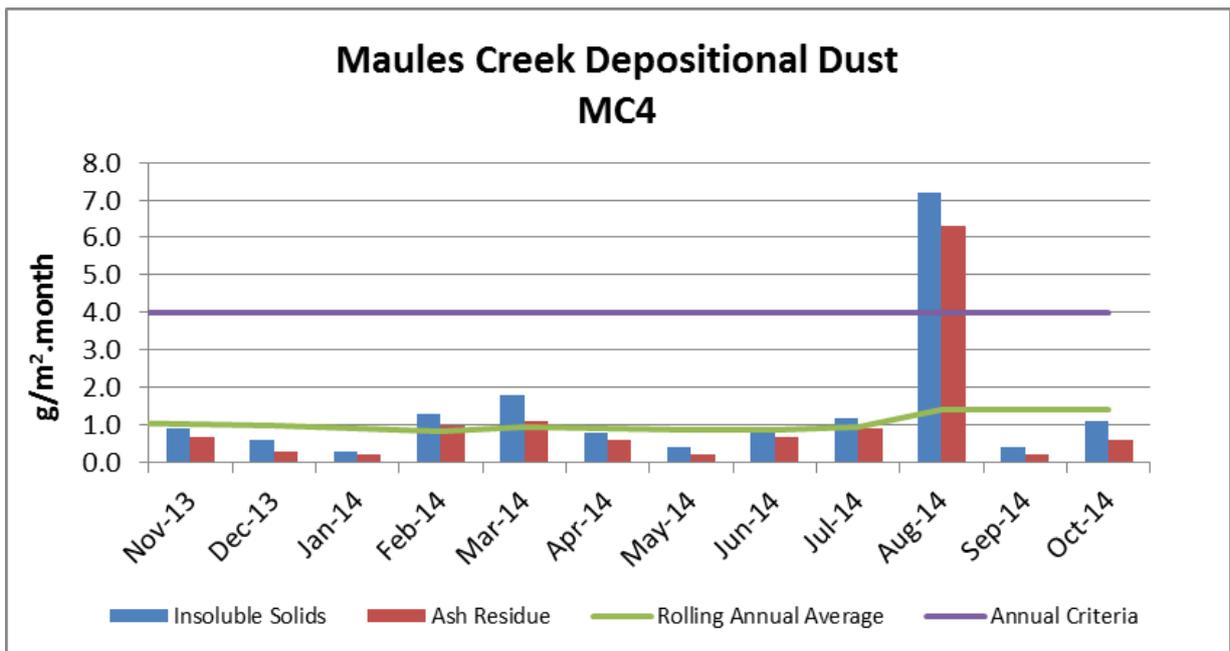
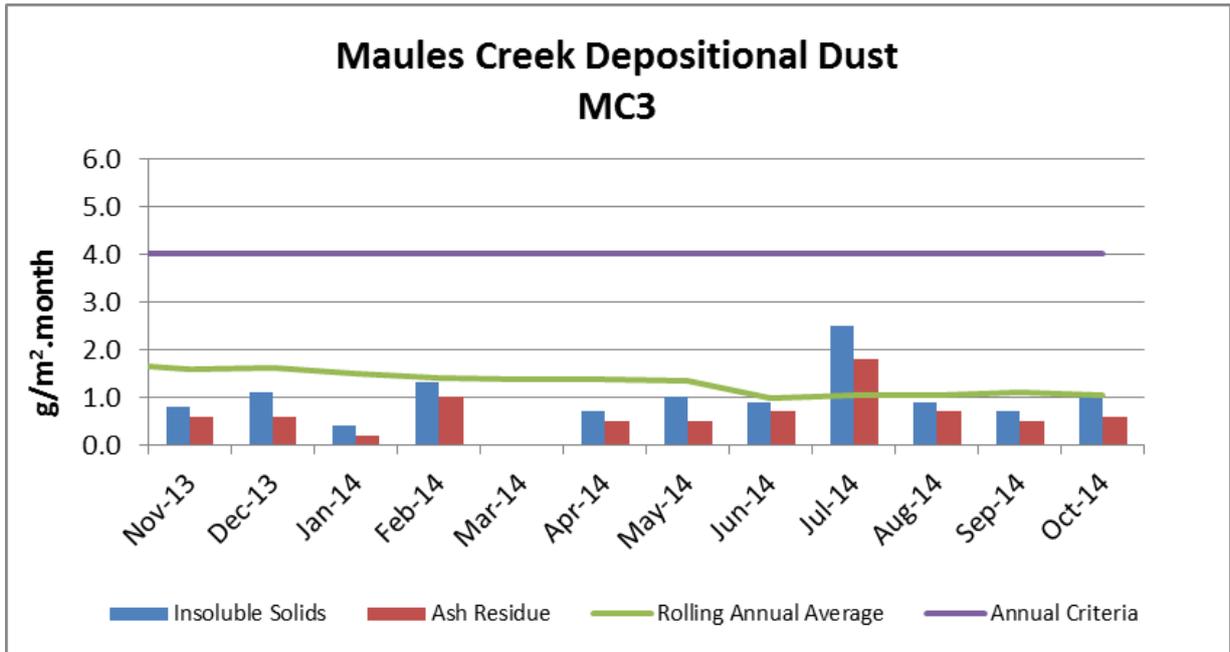
Month	MC1	MC2	MC3	MC4
Oct-13	1.0		1.7	1.3
Nov-13	1.1		0.8	0.9
Dec-13			1.1	0.6
Jan-14	0.5		0.4	0.3
Feb-14	1.3		1.3	1.3
Mar-14	2.7	3.2		1.8
Apr-14	1.2		0.7	0.8
May-14	2.9	3.0	1.0	0.4
Jun-14	2.1	0.8	0.9	0.9
Jul-14	3.8	1.0	2.5	1.2
Aug-14			0.9	7.2
Sep-14		0.6	0.7	0.4
Oct-14	3.5		1.0	1.1
<b>Annual Avg</b>	<b>2.0</b>	<b>1.7</b>	<b>1.1</b>	<b>1.4</b>
<b>Project Avg 2010 - 2015</b>	<b>2.2</b>	<b>1.9</b>	<b>1.6</b>	<b>1.3</b>

\* Blank cells indicate sample periods where the sample has been contaminated and excluded from the results tables due to contaminated (insect larvae, bird droppings, vegetation etc.).

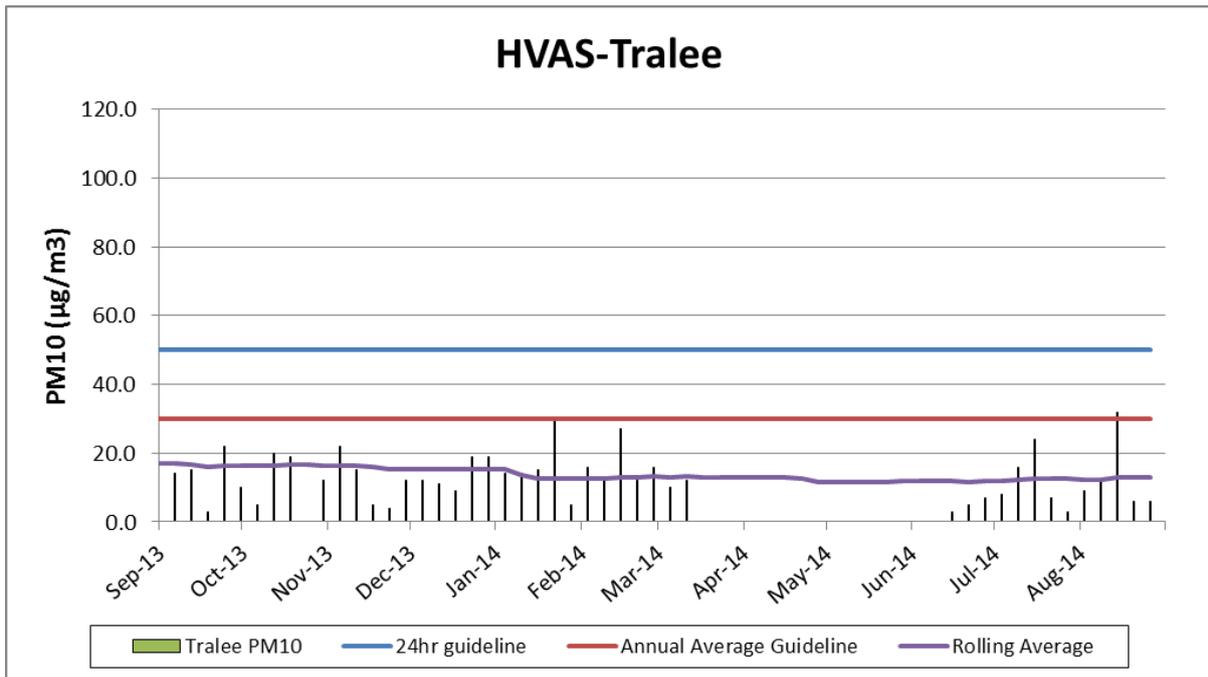
All deposited dust gauge (DDG) results as shown in Table 4 above remain below the limit of 4gm/m<sup>2</sup>/month with the exception for MC4 which returned an anomalous result of 7.2gm/m<sup>2</sup>/month in August 2014 which has subsequently returned back to atypical levels. The exact cause of the elevated result is unable to be determined however, a site visit to this location identified additional agriculture practices being conducted during this period.

Deposited Dust Figures (MC1 – MC4)





**High Volume Air Sampling (HVAS)**

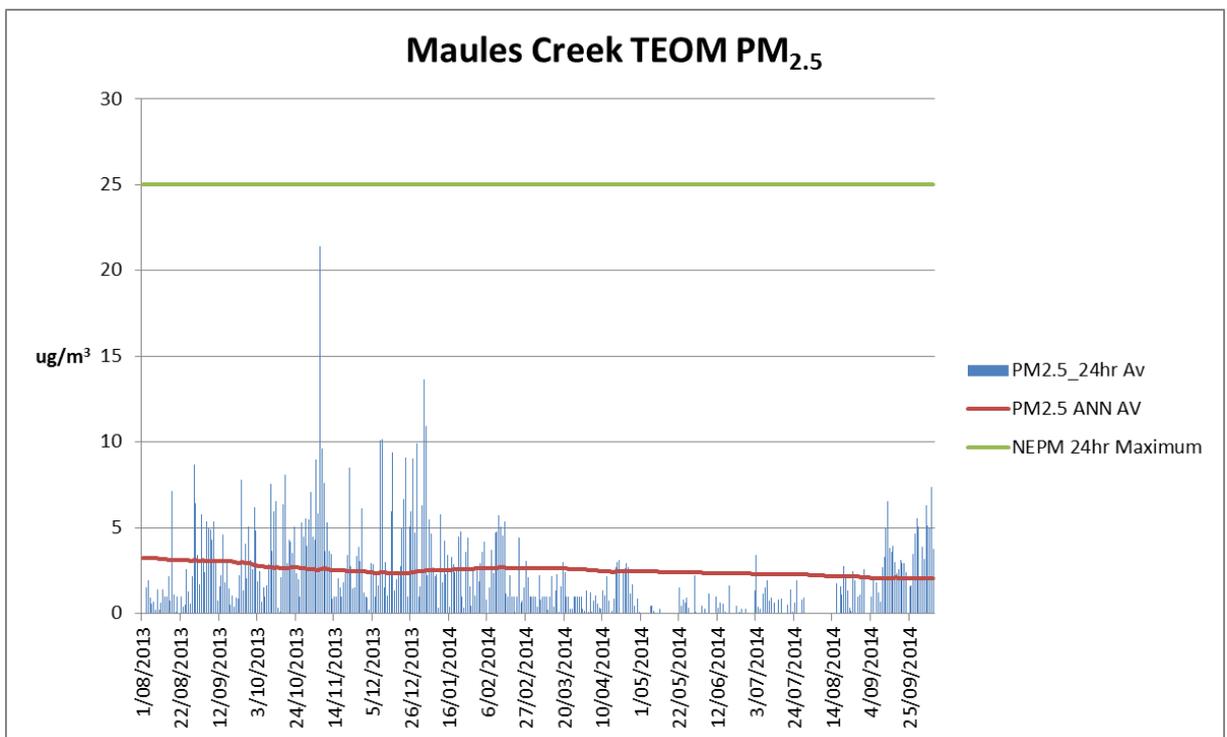
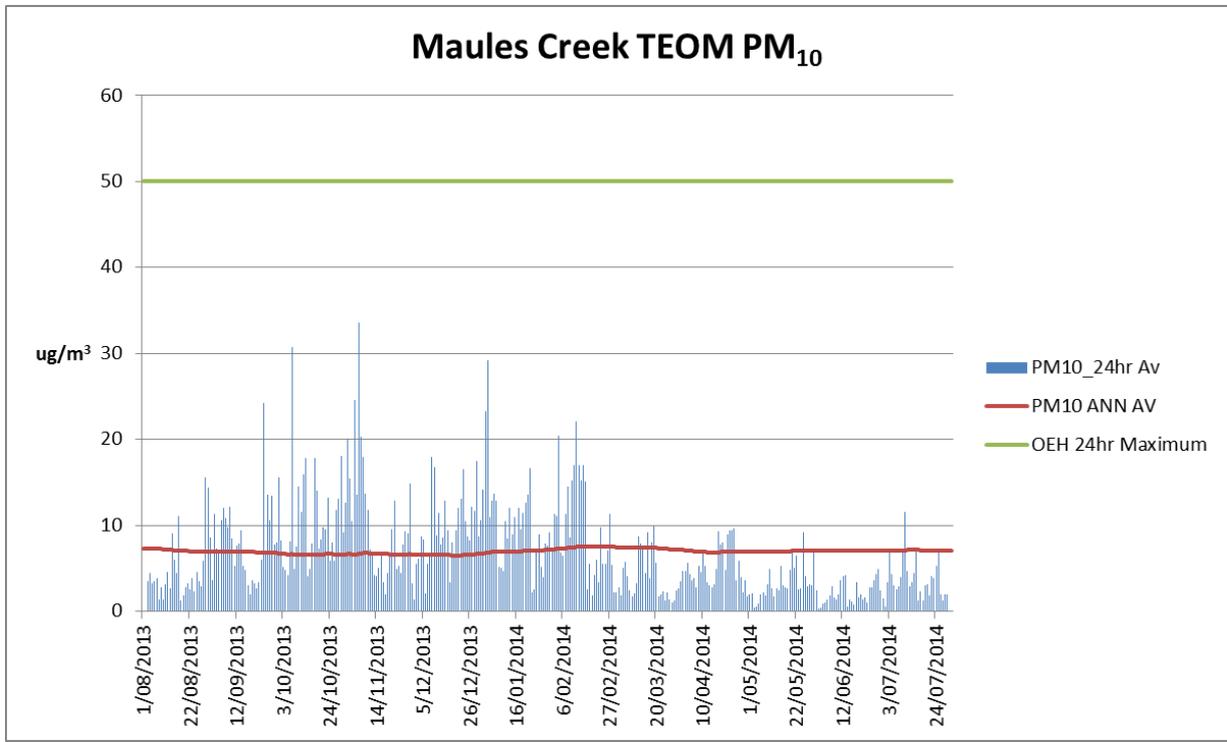


**TEOM - PM<sub>10</sub> Results**

The annual average for PM<sub>10</sub> results at the Maules Creek Coal TEOM, is currently 7.1µg/m<sup>3</sup> which is significantly below the applicable NEPM / OEH maximum annual average criteria of 30.0µg/m<sup>3</sup> (at October 2014). The PM<sub>10</sub> results have remained below this criteria since the TEOM was commissioned in November 2011. The TEOM also captures continuous measurements of PM<sub>Course</sub>, PM<sub>2.5</sub>, and Meteorology which are all available to the mine in real time. The only periods when the TEOM is offline is during scheduled system maintenance regional power failures.

The following figures show the TEOM particulate matter results (PM<sub>10</sub>, PM<sub>2.5</sub>) for the previous 12 months. The two images illustrate that particulate matter 'Annual Averages' are largely unchanged over the last 12 months.

TEOM Figures – Particulate Matter  $PM_{10\mu\text{g}/\text{m}^3}$  and  $PM_{2.5\mu\text{g}/\text{m}^3}$



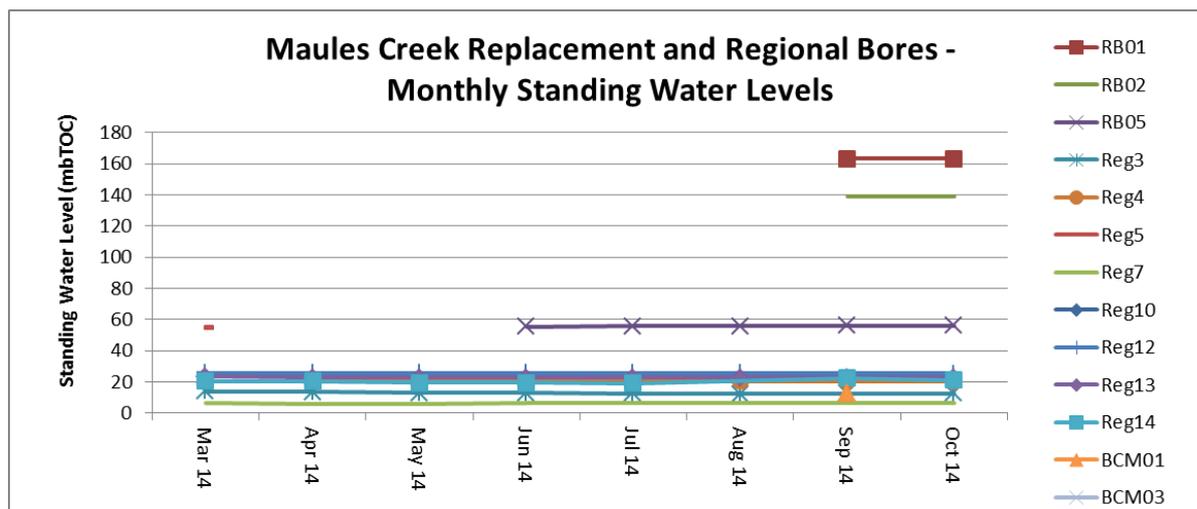
**Water Monitoring**

**Ground Water**

Groundwater monitoring results in open / standpipe piezometers show levels to be currently stable. 'RB' and 'Reg' series bores were installed between Q4 2013 and Q1 2014 and baseline data / conditions (12 months) is still being established. RB01 and RB02 groundwater levels were shown to be deeper than the field monitoring equipment could access >100m. REG5 has been inaccessible due to construction related activities, also now reinstated. BCM01, BCM03, Reg10 are dry.

**Table 5 – Groundwater Level**

SWL	RB01	RB02	RB05	Reg3	Reg4	Reg5	Reg7	Reg10	Reg12	Reg13	Reg14	BCM01	BCM03
Mar-14	Too deep	Too deep	55.26	14	20.61	Not installed	6.61	Dry	25.74	23.4	20.58	Dry	Dry
Apr-14	Too deep	Too deep	no access	13.54	20.56	Not installed	6.19	Dry	25.7	22.97	20.54	Dry	Dry
May-14	Too deep	Too deep	no access	13.15	20.54	Not installed	6.23	Dry	25.7	22.96	19.67	Dry	Dry
Jun-14	Too deep	Too deep	55.54	12.86	20.6	Not installed	6.28	Dry	25.74	23.04	19.45	Dry	Dry
Jul-14	Too deep	Too deep	56	12.63	20.59	Not installed	6.32	Dry	25.75	23.03	19.4	Dry	Dry
Aug-14	Too deep	Too deep	55.99	12.26	20.56	Not installed	6.37	Dry	25.76	22.97	NS	Dry	Dry
Sep-14	163.17	138.98	56.07	12.62	20.54	Not installed	6.57	Dry	Dry	22.97	22.41	12.69	Dry
Oct-14	163.34	139.37	56.34	12.67	20.54	Not installed	6.58	Dry	25.68	23.01	21.2	Dry	Dry

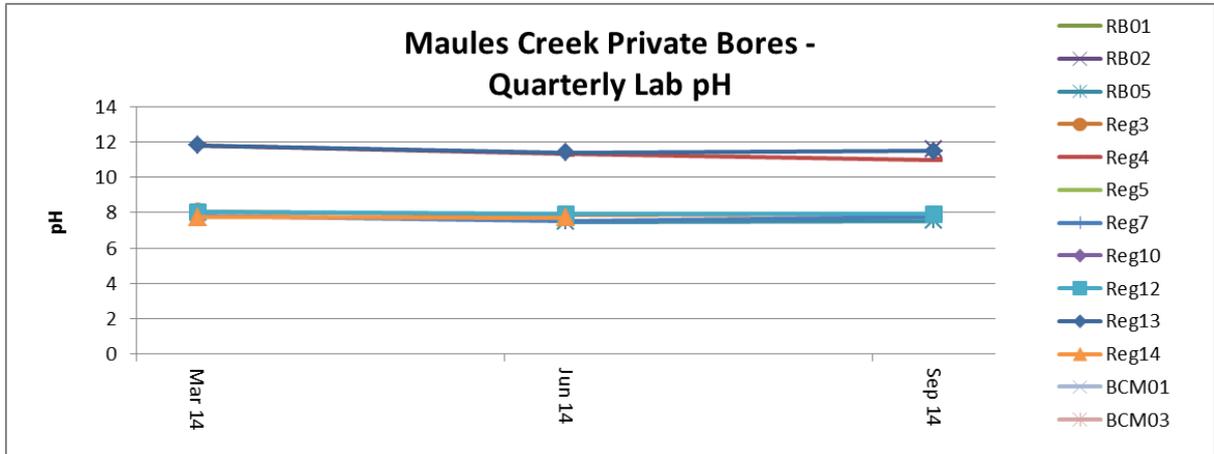


**Acidity / Alkalinity (pH)**

Baseline groundwater conditions are still being established, however, 3 bores RB02, Reg4 and Reg13 show elevated pH levels (above pH 8.5) this has been determined to be a result of low recharge volumes within these bores since the drilling and installation. The two deep bores RB01 and RB02 were found to contain very little water in them during the September monitoring event and sand was preventing collection of sufficient volume for purging and sampling

**Table – Groundwater pH**

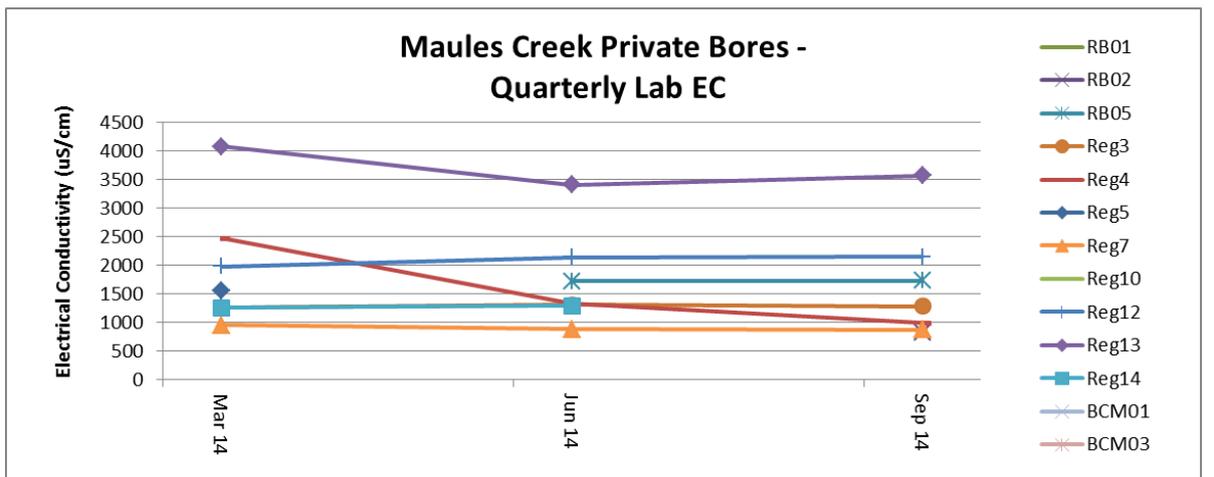
Lab pH	RB01	RB02	RB05	Reg3	Reg4	Reg5	Reg7	Reg10	Reg12	Reg13	Reg14	BCM01	BCM03
Mar-14			7.84	8.08	11.8		7.83		8.05	11.8	7.76		
Jun-14			7.48	7.9	11.3		7.52		7.93	11.4	7.72		
Sep-14		11.6	7.54	7.93	11		7.77		7.91	11.5			



**Electrical Conductivity**

Laboratory conductivity (EC) levels are all within historic groundwater EC range of 500<sub>µs/cm</sub> to 2500<sub>µs/cm</sub> with exception for Reg13.

Lab EC	RB01	RB02	RB05	Reg3	Reg4	Reg5	Reg7	Reg10	Reg12	Reg13	Reg14	BCM01	BCM03
Mar-14			1560	1260	2470		950		1980	4080	1260		
Jun-14			1720	1310	1330		884		2140	3410	1290		
Sep-14		814	1730	1280	988		871		2150	3570			



**Surface Water – Creeks and Rivers**

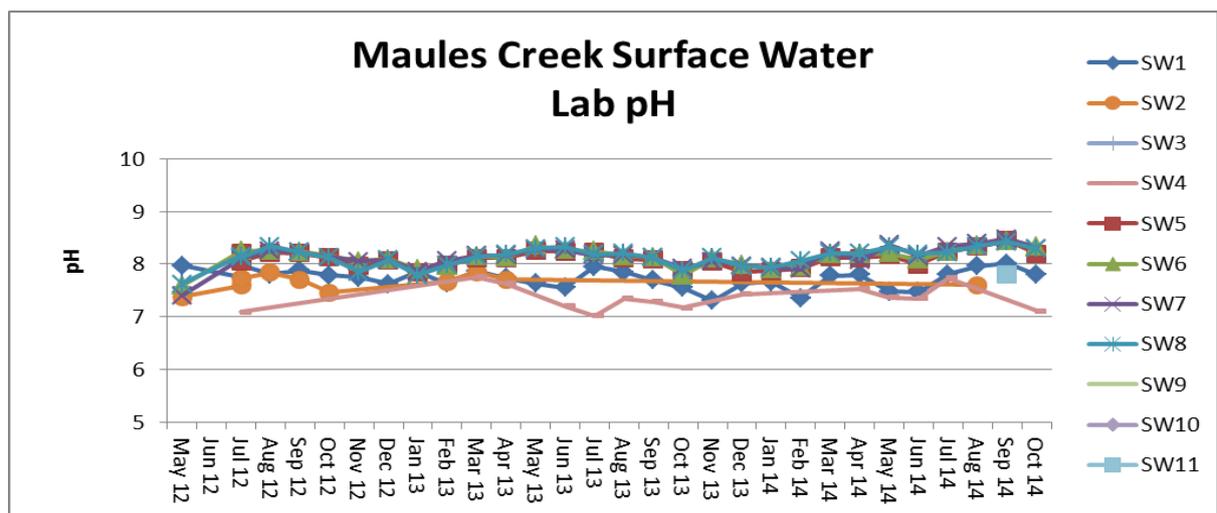
Routine surface water monitoring is conducted in surrounding Creeks and Rivers on a monthly basis and pH, EC and TSS are shown in the tables and figures below.

Additional surface water monitoring locations are associated with high rainfall events that result in runoff containment infrastructure being filled to capacity. There have not any wet weather discharge events to date.

**Acidity / Alkalinity (pH)**

Laboratory pH in creeks and rivers surrounding the project are all trending within the ANZECC acceptable range for Irrigation, Ecosystem Health and Recreation. Back Creek and upper Maules Creek are ephemeral and rarely contain flowing water.

Lab pH	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11
Oct-13	7.55	Dry	Dry	7.17	7.88	7.79	7.92	7.88	Dry	Dry	Dry
Nov-13	7.31	Dry	Dry	Dry	8.04	8.11	8.05	8.13	Dry	Dry	Dry
Dec-13	7.64	Dry	Dry	7.43	7.85	7.99	7.97	7.95	Dry	Dry	Dry
Jan-14	7.67	Dry	Dry	Dry	7.87	7.91	7.93	7.94	Dry	Dry	Dry
Feb-14	7.36	Dry	Dry	Dry	7.92	7.95	7.9	8.07	Dry	Dry	Dry
Mar-14	7.78	Dry	Dry	Dry	8.13	8.19	8.26	8.21	Dry	Dry	Dry
Apr-14	7.8	Dry	Dry	7.53	8.12	8.19	8.07	8.21	Dry	Dry	Dry
May-14	7.48	Dry	Dry	7.37	8.17	8.21	8.37	8.33	Dry	Dry	Dry
Jun-14	7.47	Dry	Dry	7.35	7.99	8.09	8.16	8.2	Dry	Dry	Dry
Jul-14	7.81	Dry	Dry	7.74	8.24	8.24	8.34	8.22	Dry	Dry	Dry
Aug-14	7.96	7.6	Dry	Dry	8.33	8.36	8.39	8.34	Dry	Dry	Dry
Sep-14	8.01	Dry	Dry	Dry	8.45	8.44	8.49	8.42	Dry	Dry	7.8
Oct-14	7.8	Dry	Dry	7.11	8.2	8.34	8.3	8.29	Dry	Dry	Dry

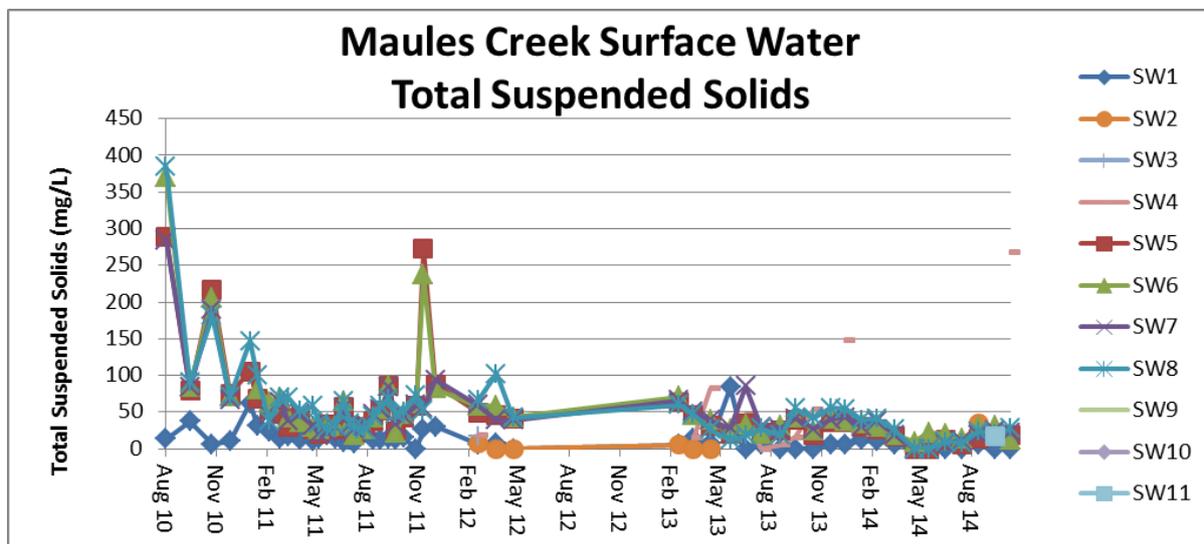




**Total Suspended Solids (TSS)**

Surface TSS trends have remained consistent with SW5, SW6, SW7 and SW8 are also historically variable. SW5 to SW8 are stations along the Namoi River which is subject to regulated / variable flow regimes.

TSS	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11
Nov-13	6	Dry	Dry	Dry	36	41	40	56	Dry	Dry	Dry
Dec-13	6	Dry	Dry	148	36	38	43	54	Dry	Dry	Dry
Jan-14	12	Dry	Dry	Dry	30	35	30	39	Dry	Dry	Dry
Feb-14	10	Dry	Dry	Dry	26	30	38	41	Dry	Dry	Dry
Mar-14	6	Dry	Dry	Dry	17	19	19	26	Dry	Dry	Dry
Apr-14	<5	Dry	Dry	<5	<5	9	<5	<5	Dry	Dry	Dry
May-14	<5	Dry	Dry	<5	<5	22	<5	<5	Dry	Dry	Dry
Jun-14	<5	Dry	Dry	8	12	20	8	9	Dry	Dry	Dry
Jul-14	<5	Dry	Dry	<5	6	13	11	8	Dry	Dry	Dry
Aug-14	6	35	Dry	Dry	13	30	18	24	Dry	Dry	Dry
Sep-14	<5	Dry	Dry	Dry	17	31	25	20	Dry	Dry	17
Oct-14	<5	Dry	Dry	268	18	12	22	28	Dry	Dry	Dry



**Rehabilitation**

Construction at Maules Creek Coal commenced in December 2014 and is currently ongoing. Progressive rehabilitation of laydown areas, batters and drains has commenced and will continue construction activities are completed.

Mining commenced in August 2014, as such no rehabilitation has commenced during this period.

**Complaints**

For full detail of each Complaint please refer to the Community Complaints Register. Available on [www.whitehavencoal.com.au](http://www.whitehavencoal.com.au)